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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/581,425

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Chul-Sik Yoon

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EXAMINER

BIBBEE, CHAYCE R

ART UNIT

PAPER NUMBER

2617

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DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/581,425	Applicant(s) YOON ET AL.	
	Examiner CHAYCE BIBBEE	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 15-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 15-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>08/25/2006, 04/16/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements (IDS) submitted on 08/25/2006 and 04/16/2007 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Priority

2. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).
3. Claims 1-14 have been cancelled. Claims 15-36 are presented for examination.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 15-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Baum et al (pub # 20040190482).

Consider claims 15 and 22. Baum et al teaches A method for allocating a radio resource, comprising:

dividing the radio resource into a plurality of bursts, wherein the radio resource is formed by a plurality of subchannels and a plurality of symbol intervals; **(See at least the abstract as well as Fig. 4 and paragraph [0029] where Baum discloses dividing a downlink frame into a plurality of resource blocks. Also See Fig. 14 where subcarriers and symbol intervals are displayed).**

adding, to a map, information on the number of unit resources corresponding to each of the plurality of bursts; **(See at least paragraph [0030] where Baum discloses each resource block will be provided N resource units).**

and transmitting the map. **(See at least the abstract).**

Consider claim 25. Baum et al teaches A frame comprising:

a plurality of bursts; **(See at least the abstract as well as Fig. 4 and paragraph [0029] where Baum discloses dividing a downlink frame into a plurality of resource blocks. Also See Fig. 14 where subcarriers and symbol intervals are displayed).**

and a map including information on the number of unit resources corresponding to each of the plurality of bursts, wherein a position of each of the plurality of bursts is decided through the number of unit resources in a radio resource that is formed by a plurality of subchannels and a plurality of symbol intervals. **(See at least the abstract as well as**

Fig. 4 and paragraph [0029] where Baum discloses dividing a downlink frame into a plurality of resource blocks. Also See Fig. 14 where subcarriers and symbol intervals are displayed).

Consider claim 30. Baum et al teaches A method for transmitting a frame, comprising:
adding, to a map, information on the number of unit resources corresponding to each of the plurality of bursts; **(See at least paragraph [0030] where Baum discloses each resource block will be provided N resource units).**

inserting the map to the frame; **(See at least the abstract).**

and transmitting the frame. **(See at least the abstract).**

Consider claim 34. A method for accessing a radio resource that is formed by a plurality of subchannels and a plurality of symbol intervals, comprising:

searching information on a designated burst in a common control block; **(See at least the abstract as well as Fig. 4 and paragraph [0029] where Baum discloses dividing a downlink frame into a plurality of resource blocks. Also See Fig. 14 where subcarriers and symbol intervals are displayed).**

checking the number of unit resources allocated to the designated burst from the information on the designated burst; **(See at least paragraph [0030] where Baum discloses each resource block will be provided N resource units).**

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searching the designated burst according the number of unit resources to receive the designated burst; **(See at least paragraph [0030] where Baum discloses each resource block will be provided N resource units).**

and terminating the receiving operation when the designated burst is received. **(See at least the abstract).**

Consider claims 16 and 23. Baum et al teaches all of the recited limitations of claims 15 and 22. Baum further teaches wherein dividing the radio resource comprises:

deciding a default resource in the radio resource; **(See at least paragraph [0053] where Baum discloses that a default resource block is assigned).**

and dividing the default resource into the plurality of bursts. **(See at least paragraph [0030] as well as fig. 4 where Baum discloses each resource block divided into resource units).**

Consider claims 17, 24, 27, 32, and 35. Baum et al teaches all of the recited limitations of claim 16, 23, 26, 31, and 34. Baum further teaches wherein deciding the default resource comprises:

deciding the default resource through the number of subchannels. **(See at least paragraph [0053]).**

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Consider claim 18. Baum et al teaches all of the recited limitations of claim 17. Baum further teaches adding, to the map, information on size of the default resource. **(See at least paragraph [0034] as well as Fig. 5).**

Consider claim 19. Baum et al teaches all of the recited limitations of claim 18. Baum further teaches

deciding a profile about the plurality of bursts; **(See at least paragraph [0037]).**

encoding and modulating the plurality of bursts according to the profile to generate a frame; **(See at least paragraph [0037]).**

and transmitting the frame including the map. **(See at least paragraph [0037]).**

Consider claim 20. Baum et al teaches all of the recited limitations of claim 19. Baum further teaches wherein encoding and modulating the plurality of bursts comprises: arranging the plurality of bursts in time order according to robustness of the profile to generate the frame. **(See at least paragraph [0037]).**

Consider claim 21. Baum et al teaches all of the recited limitations of claim 20. Baum further teaches adding, to the map, an index of a start unit resource and an index of an end unit resource for each of the plurality of bursts. **(See at least paragraph [0038] as well as figures 4 and 5).**

Consider claims 26 and 31. Baum et al teaches all of the recited limitations of claims 25

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and 30. Baum further teaches wherein the position of each of the plurality of bursts is decided through the number of unit resources in a default resource of the radio resource, and wherein the map further includes information on size of the default resource. **(See at least paragraphs [0029] and [0030]).**

Consider claims 28 and 33. Baum et al teaches all of the recited limitations of claims 27 and 32. Baum further teaches wherein the map further includes information on a user corresponding to each of the plurality of bursts and information on a profile of each of the plurality of bursts. **(See at least paragraph [0037]).**

Consider claim 29. Baum et al teaches all of the recited limitations of claim 28. Baum further teaches wherein the plurality of bursts are arranged in time order according to robustness of the profile. **(See at least paragraph [0037]).**

Consider claim 36. Baum et al teaches all of the recited limitations of claim 35. Baum further teaches The method of claim 35, further comprising:
checking information on a profile of the designated burst from the information on the designated burst; and demodulating and decoding the designated burst according to the profile. **(See at least paragraph [0037]).**

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHAYCE BIBBEE whose telephone number is (571)270-7222. The examiner can normally be reached on Monday-Friday 7:30 a.m.-5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

CHAYCE BIBBEE
Examiner
Art Unit 2617